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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=18; hr=13; min=34; sec=11; ms=211;]

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Application No: 10569797 Version No: 1.0

Input Set:

Output Set:

Started: 2008-08-20 11:39:22.667
Finished: 2008-08-20 11:39:26.543
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 876 ms
Total Warnings: 122
Total Errors: 0
No. of SeqIDs Defined: 135
Actual SeqID Count: 135

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-08-20 11:39:22.667
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Total Warnings: 122
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Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 251	Found intentionally skipped sequence in SEQID (44)
W 251	Found intentionally skipped sequence in SEQID (45)
W 251	Found intentionally skipped sequence in SEQID (50)

SEQUENCE LISTING

<110> FIEBIG, UWE
SCHMOLKE, MIRCO
DENNER, JOACHIM
KURTH, REINHARDT
KARLAS, ALEXANDER

<120> INDUCTION OF ANTIVIRAL NEUTRALIZING ANTIBODIES IN
HUMANS AND ANIMALS

<130> GULDE-0068

<140> 10569797

<141> 2008-08-20

<150> PCT/DE04/01897

<151> 2004-08-26

<150> DE 10339966.6

<151> 2003-08-26

<150> 60/500, 699

<151> 2003-09-08

<160> 135

<170> PatentIn version 3.5

<210> 1

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

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Gln Ala Arg Gln Leu Leu Ser Asp Ile Val Gln Gln Gln
1 5 10

<210> 2

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

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Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn
1 5 10

<210> 3
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 3
Gly Ala Ser Val Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser Asp
1 5 10 15

Ile Val Gln Gln Gln
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<210> 4
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

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Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn
1 5 10 15

Trp Leu Trp Tyr
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<210> 5
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 5
Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Ala Ser Val Thr Leu Thr
1 5 10 15

Val Gln Ala Arg Leu Leu Leu Ser
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<210> 6
<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 6

Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn
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Trp Phe Asp Ile Thr Asn Trp Leu
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<210> 7

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 7

Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Ala Ser
1 5 10 15

Ile Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
20 25

<210> 8

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 8

Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Ala Ser
1 5 10 15

Met Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
20 25

<210> 9

<211> 28

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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1 5 10 15

Leu Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
20 25

<210> 10
<211> 28
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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Leu Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Ala Ser
1 5 10 15

Ile Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
20 25

<210> 11
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Ala Ser
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Ile Thr Leu Thr Val Gln Val Arg Gln Leu Leu Ser
20 25

<210> 12
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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Phe Leu Gly Val Leu Ser Ala Ala Gly Ser Thr Met Gly Ala Ala Ala
1 5 10 15

Thr Ala Leu Thr Val Gln Thr His Thr Leu Met Lys
20 25

<210> 13
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 13
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
1 5 10 15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 14
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 14
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Asn Leu Trp Asn
1 5 10 15

Trp Phe Asp Ile Ser Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 15
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 15
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Asn Leu Trp Asn

1

5

10

15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Arg
20 25

<210> 16
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 16
Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn
1 5 10 15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 17
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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Asn Glu Lys Asp Leu Leu Ala Leu Asp Ser Trp Gln Asn Leu Trp Asn
1 5 10 15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 18
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 18
Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn
1 5 10 15

Trp Phe Ser Ile Thr Gln Trp Leu Trp Tyr Ile Lys
20 25

<210> 19
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 19
Asn Glu Gln Glu Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
1 5 10 15

Trp Phe Asp Ile Ser Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 20
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 20
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Asp Asn Leu Trp Ser
1 5 10 15

Trp Phe Ser Ile Thr Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 21
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 21
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
1 5 10 15

Trp Phe Asp Ile Thr Lys Trp Leu Trp Tyr Ile Lys
20 25

<210> 22
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 22
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
1 5 10 15

Trp Phe Ser Ile Thr Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 23
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 23
Asn Glu Lys Lys Leu Leu Glu Leu Asp Glu Trp Ala Ser Ile Trp Asn
1 5 10 15

Trp Leu Asp Ile Thr Lys Trp Leu Trp Tyr Ile Lys
20 25

<210> 24
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 24
Ala Val Gly Leu Ala Ile Phe Leu Leu Val Leu Ala Ile Met Ala Ile
1 5 10 15

Thr Ser Ser Leu Val Ala Ala Thr Thr Leu Val Asn Gln His Thr Thr
20 25 30

Ala Lys Val
35

<210> 25
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 25
Ser Leu Ser Asp Thr Gln Asp Thr Phe Gly Leu Glu Thr Ser Ile Phe
1 5 10 15

Asp His Leu Val Gln Leu Phe Asp Trp Thr Ser Trp Lys Asp Trp Ile
20 25 30

Lys

<210> 26
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 26
Gly Val Gly Leu Val Ile Met Leu Val Ile Met Ala Ile Val Ala Ala
1 5 10 15

Ala Gly Ala Ser Leu Gly Val Ala Asn Ala Ile Gln Gln Ser Tyr Thr
20 25 30

Lys Ala Ala Val Gln Thr Leu Ala Asn
35 40

<210> 27
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 27
Ala Met Thr Gln Leu Ala Glu Glu Gln Ala Arg Arg Ile Pro Glu Val

1 5 10 15

Trp Glu Ser Leu Lys Asp Val Phe Asp Trp Ser Gly Trp Phe Ser Trp
20 25 30

Leu Lys Tyr Ile
35

<210> 28
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 28
Phe Gly Ile Ser Ala Ile Val Ala Ala Ile Val Ala Ala Thr Ala Ile
1 5 10 15

Ala Arg Ser Ala Thr Met Ser Tyr Val Ala Leu Thr Glu Val Asn Lys
20 25 30

Ile Met Glu Val Gln Asn His
35

<210> 29
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 29
Leu Ala Gln Ser Met Ile Thr Phe Asn Thr Pro Asp Ser Ile Ala Gln
1 5 10 15

Phe Gly Lys Asp Leu Trp Ser His Ile Gly Asn Trp Ile Pro Gly Leu
20 25 30

Gly Ala Ser Ile Ile Lys Tyr
35

<210> 30
<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 30

Ser Ser Ser Tyr Ser Gly Thr Lys Met Ala Cys Pro Ser Asn Arg Gly
1 5 10 15

Ile Leu Arg Asn Trp Tyr Asn Pro Val Ala Gly Leu Arg Gln Ser Leu
20 25 30

Glu Gln Tyr Gln Val Val Lys Gln Pro Asp Tyr Leu Leu Val Pro Glu
35 40 45

<210> 31

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 31

Met Asp Ile Glu Gln Asn Asn Val Gln Gly Lys Ile Gly Ile Gln Gln
1 5 10 15

Leu Gln Lys Trp Glu Asp Trp Val Arg Trp Ile Gly Asn Ile Pro Gln
20 25 30

Tyr Leu Lys

35

<210> 32

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 32

Gly Ile Gly Leu Val Ile Val Leu Ala Ile Met Ala Ile Ile Ala Ala
1 5 10 15

Ala Gly Ala Gly Leu Gly Val Ala Asn Ala Val Gln Gln Ser Ser Tyr

20

25

30

Thr Arg Thr Ala Val Gln Ser Leu Ala Asn Ala Thr Ala Ala Gln Gln
35 40 45

Asn

<210> 33
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 33
Gln Val Gln Ile Ala Gln Arg Asp Ala Gln Arg Ile Pro Asp Val Trp
1 5 10 15

Lys Ala Leu Gln Glu Ala Phe Asp Trp Ser Gly Trp Phe Ser Trp Leu
20 25 30

Lys Tyr Ile Pro Trp
35

<210> 34
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 34
Leu Gly Phe Leu Gly Phe Leu Ala Thr Ala Gly Ser Ala Met Gly Ala
1 5 10 15

Ala Ser Leu Val Thr Ala Gln Ser Arg Thr Leu Leu Ala Val Ile Val
20 25 30

Gln Gln Gln Gln Gln Leu Leu Asp Val Val
35 40

<210> 35
<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 35

Glu Glu Ala Gln Ile Gln Gln Glu Lys Asn Met Tyr Glu Leu Trp Lys
1 5 10 15

Leu Asn Trp Trp Asp Val Phe Gly Asn Trp Phe Asp Leu Thr Ser Trp
20 25 30

Asp Leu Thr Ser Trp Ile Lys Tyr
35 40

<210> 36

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 36

Leu Gly Ala Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala
1 5 10 15

Ala Ala Val Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser Gly Ile
20 25 30

Val Gln Gln Gln Asn Asn Leu Leu
35 40

<210> 37

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 37

Glu Glu Ala Gln Ser Gln Gln Glu Lys Asn Glu Arg Asp Leu Leu Glu
1 5 10 15

Leu Asp Gln Trp Ala Ser Leu Trp Asn Trp Phe Asp Ile Thr Lys Trp

20

25

30

Leu Trp Tyr Ile Lys
35

<210> 38
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 38
Gly Ile Gly Leu Val Ile Val Leu Ala Ile Met Ala Ile Ile Ala Ala
1 5 10 15

Ala Gly Ala Gly Leu Gly Val Ala Asn Ala Val Gln Gln Ser Tyr Thr
20 25 30

Arg Thr Ala Val Gly Ser Leu Ala Asn Ala Thr Ala Ala Gln Gln Glu
35 40 45

<210> 39
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 39
Glu Ala Ala Leu Gln Val His Ile Ala Gln Arg Asp Ala Arg Arg Ile
1 5 10 15

Pro Asp Ala Trp Lys Ala Ile Gln Glu Ala Phe Asn Asn Trp Ser Ser
20 25 30

Trp Phe Ser Trp Leu Lys Tyr
35

<210> 40
<211> 40
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 40

Leu Gly Phe Leu Gly Phe Leu Ala Thr Ala Gly Ser Ala Met Gly Ala
1 5 10 15

Arg Ser Leu Thr Leu Ser Ala Gln Ser Arg Thr Leu Leu Ala Gly Ile
20 25 30

Val Gln Gln Gln Gln Gln Leu Leu
35 40

<210> 41

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 41

Glu Glu Ala Gln Ile Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu
1 5 10 15

Asn Ser Trp Asp Ile Leu Gly Asn Trp Phe Asp Leu Ile Ser Trp Val
20 25 30

Lys Tyr Ile Gln
35

<210> 42

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic